## Rig # 12
### Equipment List

### Mast
- **Make:** Hall Machine
- **Model:** Cantilever – Hydraulically raised with two rams
- **Height:** 90’
- **Maximum Static Hook Load:** 250,000 pounds
- **Stand Back Capacity:** 4,000 feet of 4” 16.6 # D.P.

- **Drilling Line**
  - **Size:** 5,000 feet of 3” 15.5 # D.P.
  - **Rating:** 1” 6x31 EIPS swaged
  - **Rating:** 124,000 pound single line pull

- **Blocks**
  - **Make:** Sowa
  - **Model:** 6-100
  - **Maximum Rating:** 100 tons

- **Swivel**
  - **Make:** National Oilwell
  - **Model:** S4-100
  - **Maximum Hook Load:** 100 tons

### Drawworks
- **Make:** Hall Machine
- **Model:** 750 Double Drum
- **Horsepower:** 750hp
- **Driven By:** Twin 6-71T Detroit Diesels with a combined horsepower rating of 440 hp at 1800 rpm

- **Clutches**
  - **Model:** 16” Twin Detroit Allison

- **Gear Box**
  - **Make:** Detroit Allison
  - **Ratio:** 1 : 1

- **Transmission**
  - **Make:** Detroit Diesel
  - **Model:** 5860

- **Rotary Table**
  - **Make:** Howard Turner
  - **Model:** RT-2 Oil Bath with a 6:1 gear ratio
  - **Size:** 17 1/2” full open bore
  - **Driven By:** Drawworks motor

- **Rotary Table Clutch**
  - **Make:** Twin Disc
  - **Model:** 14” Single Plate

- **Winch**
  - **Make:** Braden
  - **Model:** PD-10
  - **Line Size:** _” x 250’
Rig # 12
Equipment List

Substructure
Floor Height: 9’6”
Floor Width: 8’6”
Floor Length: 16’
Distance From Ground to Rotary Beam: 8’4” with 10’KB
12’4” with 14’ KB
Kelly Bushings: 10’ or 14’ depending on BOP requirements

Generator
Make: Marathon
Model: Magna Max
KW Rating: 200 KW
Driven By: One (1) 6-71T turbo charged Detroit Diesel Rated @ 220 hp @ 1800 rpm

Mud Pit
Pit Capacity: 200-bbl
• Mixing Pumps
  Count: 2
  Make: Missions
  Model: 5”x6”
  Driven By: 50 hp 480 volt, Marathon 326 TTDR8528
• Shakers
  Count: 2
  Make: Harrisburg
  Model: Orbital DSS-7600194
  Screen Size: 20 x 20 mesh, 4’ x 5’ single layer
• Solids Control (Desilter)
  Make: Harrisburg Hydroclone
  Model: 04-C
  Number of Cones: 8
  Size of Cones: 4” – 50 gallon per minute cone with a 10 micron and larger separation

Pump
Make: Emsco
Model: Duplex D-500
Size: 6” x 16”
Horsepower: 500 hp
Driven By: One (1) series 60 Detroit Diesel with a horsepower rating of 525 hp @ 1800 rpm

Blowout Equipment
• Accumulator
  Make: Koomey
Model: 80-11
Pre-charge PSI: 2000 pounds
Operating PSI: 3000 pounds
Fluid Volume: 80 gallons
Back Up System: Nitrogen
Type: Bottle
Capacity: 600 cubic feet
Maximum Accumulator PSI: 3000 pounds

• Hydrill
   Available: 11” – 3000 psi working pressure
            13 5/8” – 3000 psi working pressure

Drill Pipe
• String # 1
   Size: 3 _”
   Length of String: 5,000 ft.
   Nominal Weight: 15.50 pounds per foot
   Grade: E
   Range: 2
   Tool Joint Type: 3 _” Reed IF
   Hardbanding: External

• String # 2
   Size: 4 _”
   Length of String: 5,000 ft.
   Nominal Weight: 16.60 pounds per foot
   Grade: E
   Range: 2
   Tool Joint Type: 4 _” XH
   Hardbanding: External

Drill Collars
   Available: 4 _” through 7”

Kelly
   Available: 3 _” and 4 _” square

Forklift
   Make: Caterpillar
   Model: 950 B Articulating

Rig Components Include
• Trailer mounted drawworks and mast
• 40’ walk trailer
• 40’ pipe trailer
• Trailer mounted mud pump
• Trailer mounted mud tank
• 500 bbl. fresh water tank
• Trailer mounted doghouse with generator
• 40’ accessory trailer
• Toolpusher trailer house
Rig # 12
Equipment List

- Short or long casing racks
- Forklift